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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 3

Complete if Known

Application Number	09/757,289
Filing Date	January 8, 2001
First Named Inventor	Shawn DeFrees et al.
Group Art Unit	1652
Examiner Name	Unassigned
Attorney Docket Number	019957-013821US

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
CJ	AA	5,705,367		Gotschlich	Jan. 6, 1998	
	AB	5,798,233		Gotschlich	Aug. 25, 1998	
	AC	5,541,083		Paulson et al.	Jul. 30, 1996	
	AD	5,922,577		DeFrees et al.	Jul. 13, 1999	
	AE	5,945,314		Prieto et al.	Aug. 31, 1999	
	AF	5,047,335		Paulson et al.	Sept. 10, 1991	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ³
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
CJ	AG	PCT	WO 98/44145		Prieto	Oct. 8, 1998		No
	AH	EPO	EP 0870841 A1		Koizumi	Oct. 14, 1998		No
	AI	EPO	EP 0861902 A1		Koizumi	Sep. 2, 1998		No

Examiner Signature

Christopher Turner

Date Considered

9/1/05

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Sheet 2 of 3

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First Named Inventor	Shawn DeFrees et al
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OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
CTD	AJ	Endo <i>et al.</i> , "Large-scale production of N-acetylglucosamine through bacterial coupling," <i>Carbohydrate Res.</i> 316:179-183 (1999).
	AK	Koizumi <i>et al.</i> , "Large-scale production of UDP-galactose and globotriose by coupling metabolically engineered bacteria," <i>Nature Biotech.</i> 16:847-850 (1998).
	AL	Vimr and Troy, "Regulation of Sialic Acid Metabolism in <i>Escherichia coli</i> : Role of N-Acetylneuraminase Pyruvate-Lyase," <i>J. Bacteriol.</i> Vol. 164, No. 2, 854-860 (1985).
	AM	Mergaert <i>et al.</i> , "The nodulation gene <i>nolK</i> of <i>Azorhizobium caulinodans</i> is involved in the formation of GDP-fucose from GDP-mannose," <i>FFBS Letters</i> 409:312-316 (1997).
	AN	Gonzales-Clemente <i>et al.</i> , "High Production of polysialic Acid [Neu5Aca(2-8)-Neu5Aca(2-9)] _n by <i>Escherichia coli</i> K92 Grown in a Chemically Defined Medium," <i>Biol. Chem. Hoppe-Seyler</i> , Vol. 371, pp. 1101-1106 (1990).
	AO	Cho and Troy II, "Polysialic acid engineering: Synthesis of polysialylated neoglycosphingolipids by using the polysialyltransferase from neuroinvasive <i>Escherichia coli</i> K1," <i>Proc. Natl. Acad. Sci. USA</i> 91:11427-11431 (1994).
	AP	Williams and Wimpenny, "Extracellular Polysaccharide Biosynthesis by <i>Pseudomonas</i> NCIB 11264. Studies on Precursor-forming Enzymes and Factors Affecting Exopolysaccharide Production by Washed Suspensions," <i>J. of Gen. Microbiol.</i> 116:133-141 (1980).
	AQ	Mengin-Lecreux <i>et al.</i> , "Pool Levels of UDP N-Acetylglucosamine and UDP N-Acetylglucosamine-Enolpyruvate in <i>Escherichia coli</i> and Correlation with Peptidoglycan Synthesis," <i>J. of Bacteriology</i> , Vol. 154, No. 3, 1284-1290 (1983).
	AR	Lloret <i>et al.</i> , "Genetic analysis of the transcriptional arrangement of <i>Azotobacter vinelandii</i> alginate biosynthetic genes: identification of two independent promoters," <i>Mol. Microbiol.</i> 21(3):449-457 (1996).
	AS	Lindahl <i>et al.</i> , "Regulated Diversity of Heparan Sulfate," <i>J. Biol. Chem.</i> 273(39):24979-24982 (1998).
	AT	Zacharek <i>et al.</i> , "Bacteria Targeted by Human Natural Antibodies Using α -Gal Conjugated Receptor-Specific Glycopolymers," <i>Bioorg. Med. Chem.</i> 7:1549-1558 (1999).

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Charles R. Ponder

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OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
CDD	AU	Wang et al., "Enhanced Inhibition of Human anti-Gal Antibody Binding to Mammalian Cells by Synthetic α -Gal Epitope Polymers," <i>J. Amer. Chem. Soc.</i> , 121(36):8174-8181 (1999).	
	AV	Kawaguchi et al., "An Improved Method for the Fermentative Production of GDP-mannose from 5'-GMP," <i>J. Ferment. Tech.</i> 49(3):195-201 (1971)	
	AW	Kawaguchi et al., "Studies on Microbial Metabolisms of Sugar Nucleotides, Part V., "Effects of Various Factors on the Fermentative Production of GDP-mannose, GDP and GTP from 5'-GMP by Air dried Cells of Baker's Yeast," <i>Agr. Biol. Chem.</i> 34(6):908-918 (1970).	
	AX	Janczuk et al., "Alpha-Gal oligosaccharides: chemistry and potential biomedical application," <i>Curr. Med. Chem.</i> 6(2):155-64 (1999)	
	AY	Gilbert et al., "The synthesis of sialylated oligosaccharides using a CMP-Neu5Ac synthetase/sialyltransferase fusion," <i>Nat. Biotech.</i> 16:769-772 (1998).	

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